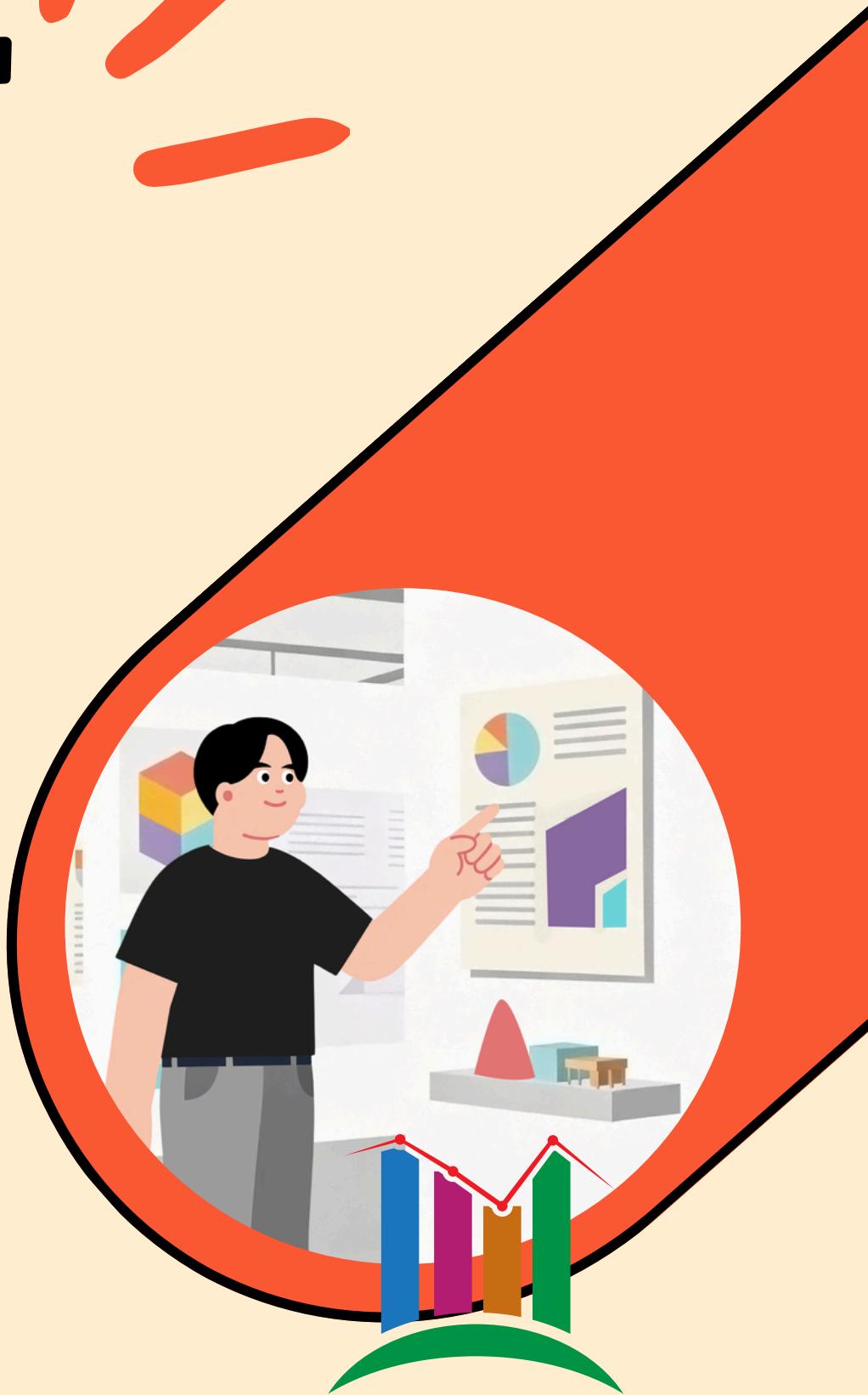


SQL PROJECT



PIZZA SALES



HELLO !



My name is Ritlesh Kumar and in this project, I have utilized SQL queries to solve business questions that were related to pizza sales.



QUESTION

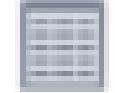
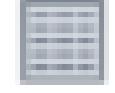
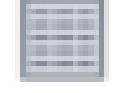


- RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.
- CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.
- IDENTIFY THE HIGHEST-PRICED PIZZA.
- IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.
- LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.
- JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.
- DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.
- JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.
- GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.
- DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.
- CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.
- ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.
- DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

DATA

This project uses a relational Pizza Sales database consisting of four tables: Orders, Order Details, Pizzas, and Pizza Types. The database captures order timing, pizza details, pricing, and categories, enabling detailed sales and revenue analysis using SQL.

It is designed to efficiently analyze customer behavior, popular pizzas, and business performance.

- ▶  [orders](#)
- ▶  [orders_details](#)
- ▶  [pizza_types](#)
- ▶  [pizzas](#)



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

Result Grid	
	total_orders
▶	21350



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT  
    ROUND(SUM(orders_details.quantity * pizzas.price),  
        2) AS total_revenue  
FROM  
    orders_details  
    JOIN  
    pizzas ON pizzas.pizza_id = orders_details.pizza_id
```

Result Grid	
	total_revenue
▶	817860.05



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT  
    ROUND(SUM(orders_details.quantity * pizzas.price),  
        2) AS total_revenue  
FROM  
    orders_details  
    JOIN  
    pizzas ON pizzas.pizza_id = orders_details.pizza_id
```

Result Grid	
	total_revenue
▶	817860.05



IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
SELECT
    pizzas.size,
    COUNT(orders_details.order_detail_id) AS order_count
FROM
    pizzas
        JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```

Result Grid | Filter

	size	order_count
▶	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28



LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES

```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```

	name	quantity
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

MySQL®



JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

```
SELECT  
    pizza_types.category,  
    SUM(orders_details.quantity) AS quantity  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
        JOIN  
    orders_details ON orders_details.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.category  
ORDER BY quantity DESC;
```

	category	quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

MySQL®



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

```
SELECT  
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY HOUR(order_time);
```

	hour	order_count
▶	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	7000

MySQL®



GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY

```
SELECT
```

```
    ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day
```

```
FROM
```

```
(SELECT
```

```
    orders.order_date, SUM(orders_details.quantity) AS quantity
```

```
FROM
```

```
    orders
```

```
JOIN orders_details ON orders.order_id = orders_details.order_id
```

```
GROUP BY orders.order_date) AS order_quantity;
```

	avg_pizza_ordered_per_day
▶	138



JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
select category , count(name) from pizza_types  
group by category;
```

	category	count(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
• SELECT  
    pizza_types.category,  
    ROUND(SUM(orders_details.quantity * pizzas.price) / (SELECT  
        ROUND(SUM(orders_details.quantity * pizzas.price),  
        2) AS total_revenue  
    )  
    FROM  
        orders_details  
        JOIN  
        pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100,  
    2) AS revenue  
FROM  
    pizza_types  
    JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
    JOIN  
    orders_details ON orders_details.pizza_id = pizzas.pizza_id  
GROUP BY pizza_types.category  
ORDER BY revenue DESC;
```

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid		
	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

- ```
select order_date,
 sum(revenue) over(order by order_date) as cum_revenue
 from
 (select orders.order_date,
 sum(orders_details.quantity * pizzas.price) as revenue
 from orders_details join pizzas
 on orders_details.pizza_id = pizzas.pizza_id
 join orders
 on orders.order_id = orders_details.order_id
 group by orders.order_date) as sales;
```

|   | order_date | cum_revenue        |
|---|------------|--------------------|
| ▶ | 2015-01-01 | 2713.8500000000004 |
|   | 2015-01-02 | 5445.75            |
|   | 2015-01-03 | 8108.15            |
|   | 2015-01-04 | 9863.6             |
|   | 2015-01-05 | 11929.55           |
|   | 2015-01-06 | 14358.5            |
|   | 2015-01-07 | 16560.7            |
|   | 2015-01-08 | 18200.05           |





# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
select name, revenue from
(select category, name, revenue,
rank() over(partition by category order by revenue desc) as rn
from
(select pizza_types.category, pizza_types.name,
sum(orders_details.quantity * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn <= 3;
```

|   | name                         | revenue  |
|---|------------------------------|----------|
| ▶ | The Thai Chicken Pizza       | 43434.25 |
|   | The Barbecue Chicken Pizza   | 42768    |
|   | The California Chicken Pizza | 41409.5  |
|   | The Classic Deluxe Pizza     | 38180.5  |
|   | The Hawaiian Pizza           | 32273.25 |
|   | The Pepperoni Pizza          | 30161.75 |
|   | The Spicy Italian Pizza      | 34831.25 |
|   | The Thai Chicken Dinner      | 22476.75 |



# CONTACT INFORMATION

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THANK YOU

